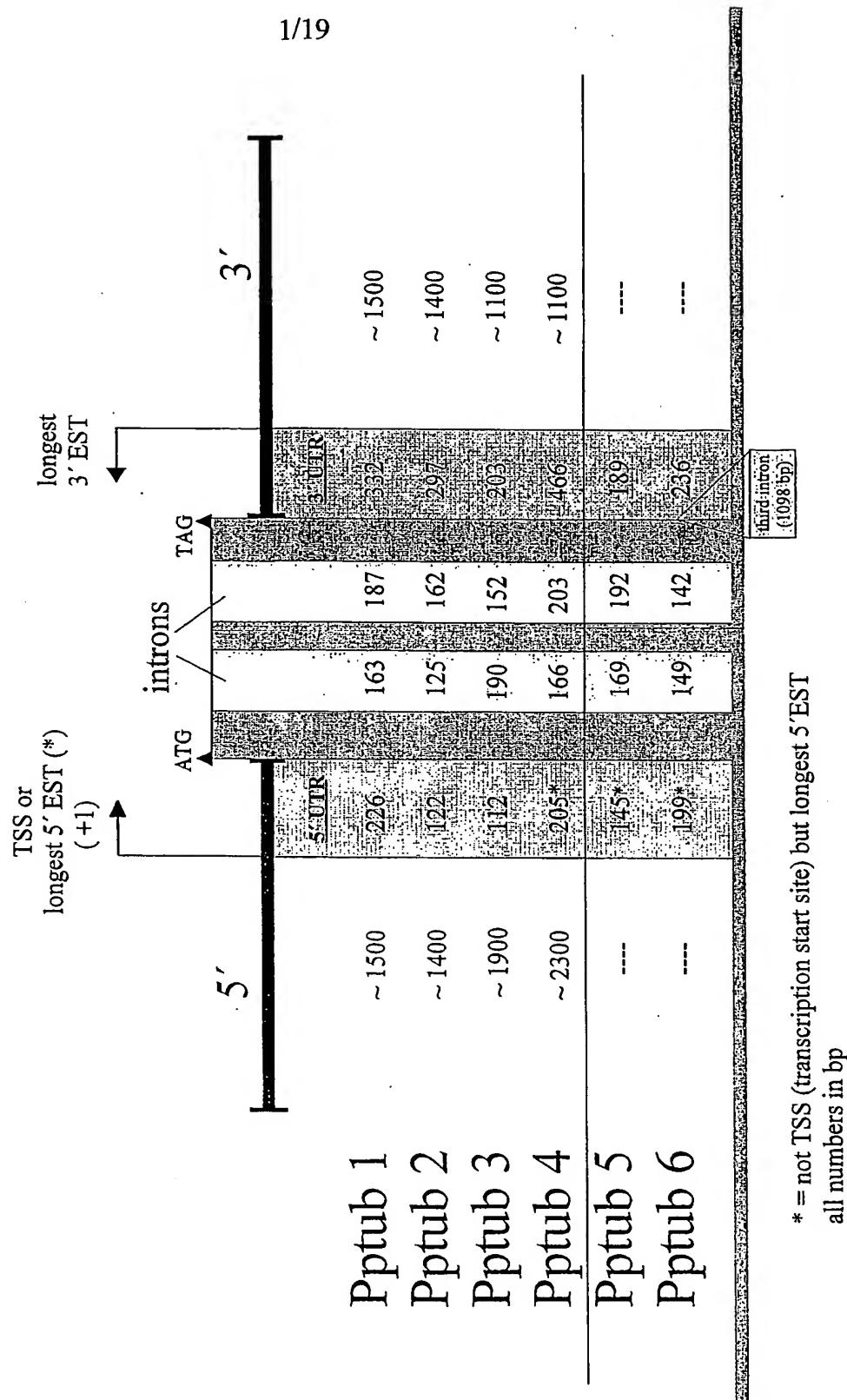
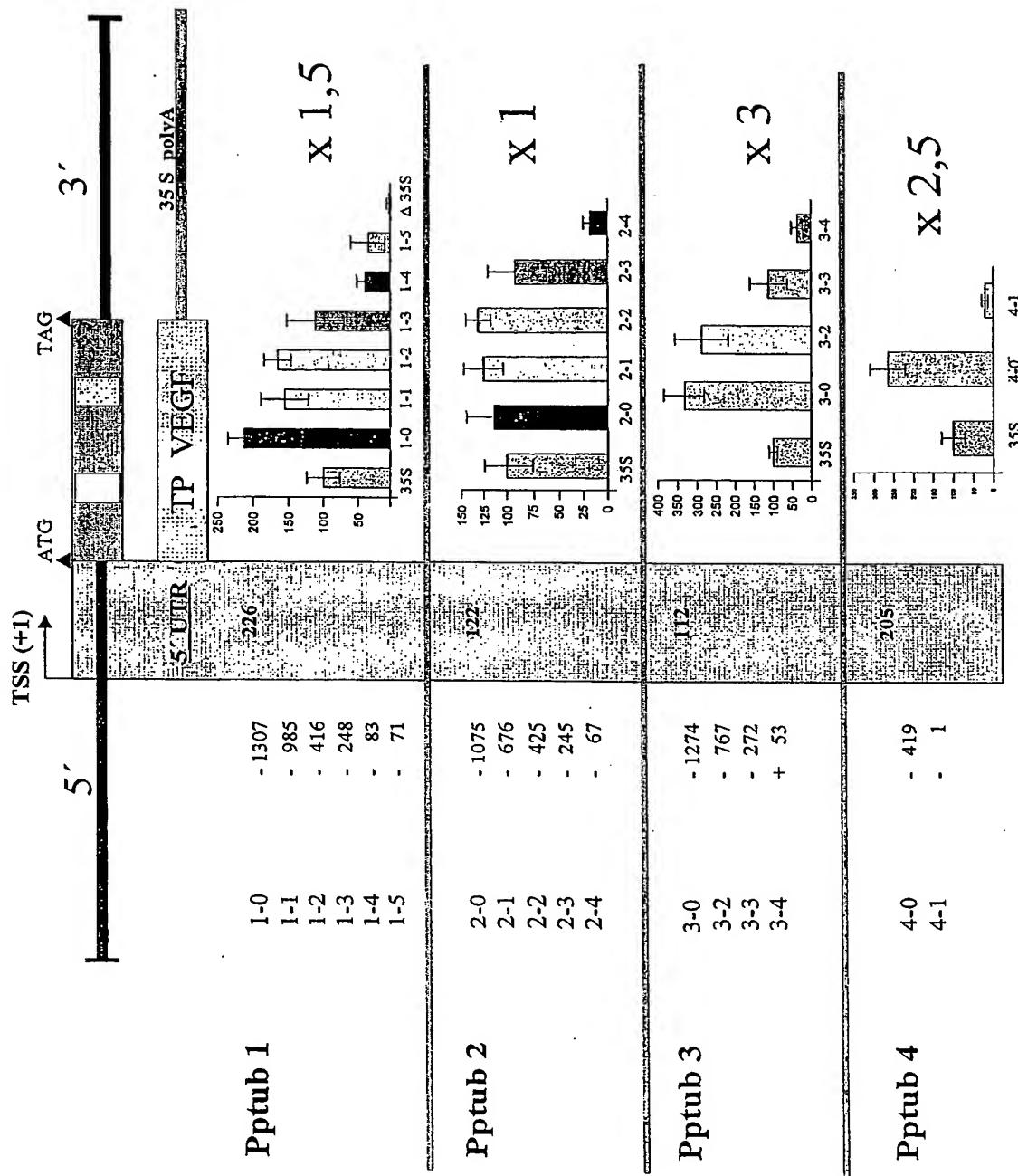


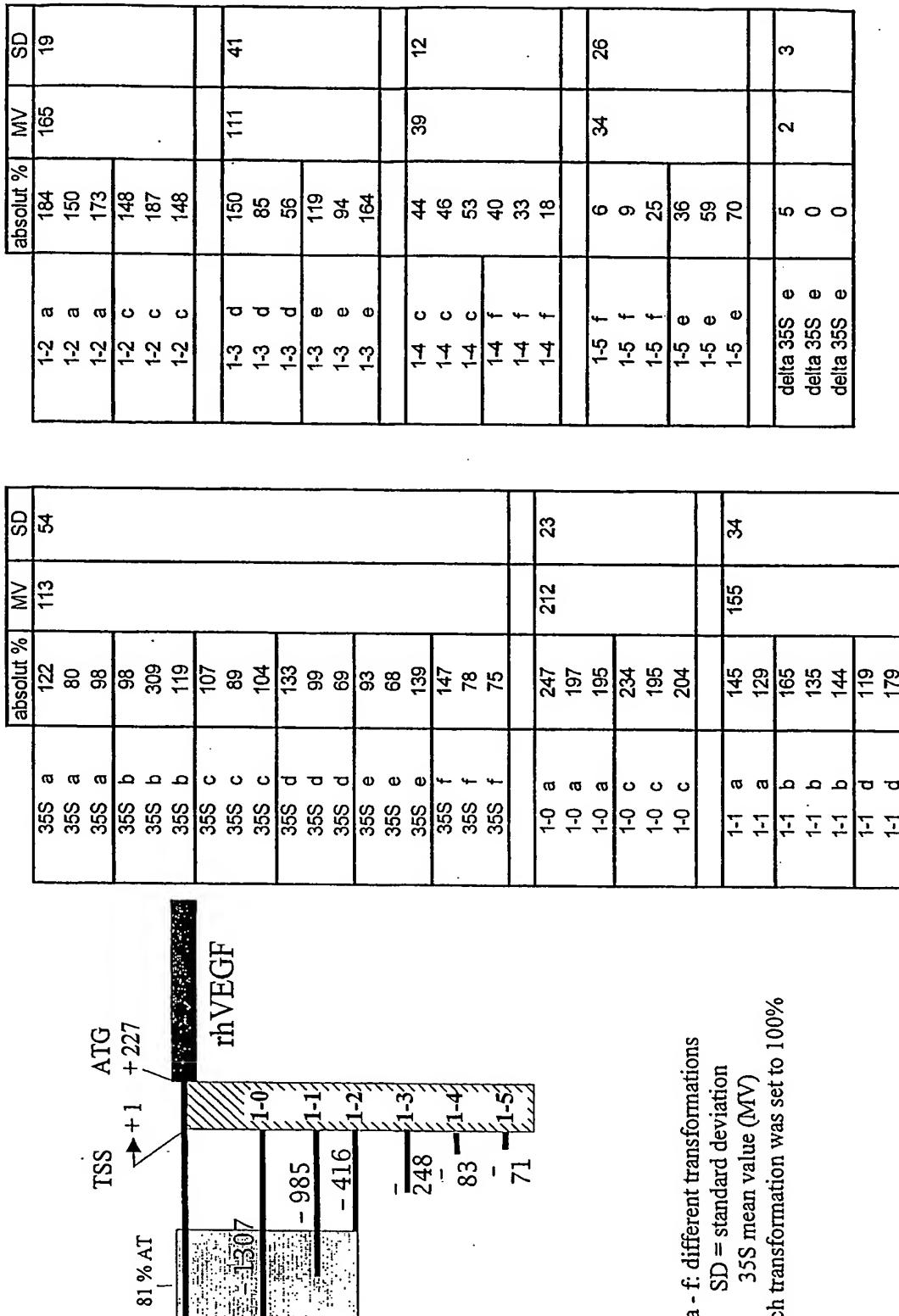
Fig. 1: β -tubulin genes in *Physcomitrella patens*

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Fig. 2: Analysis of expression promoting regions of β -tubulins in *Physcomitrella patens*

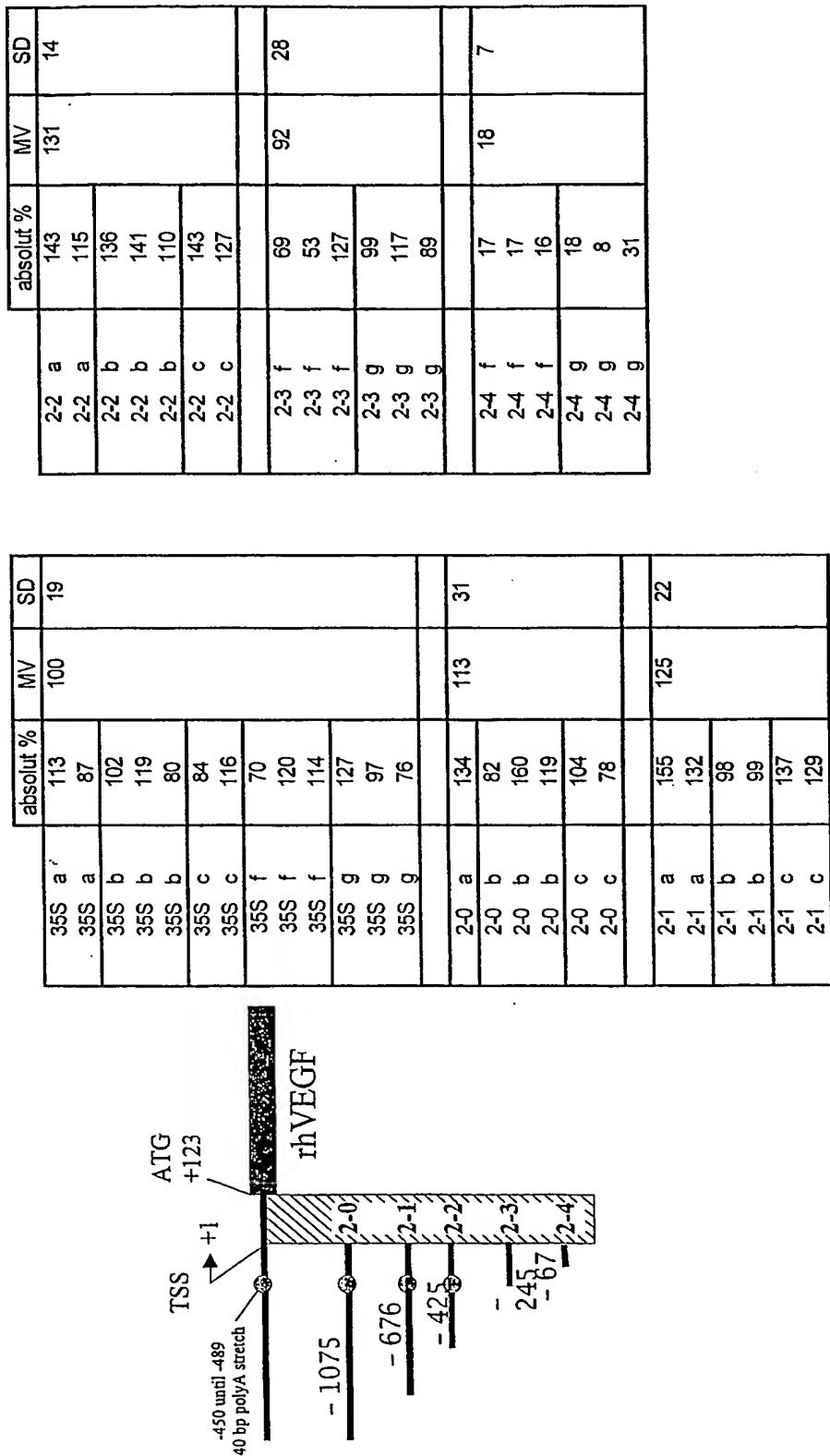
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Fig. 3: Analysis of expression promoting regions of Pptub 1 by transient transformation of rhVEGF constructs



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Fig. 4: Analysis of expression promoting regions of Pptub 2 by transient transformation of rhVEGF constructs



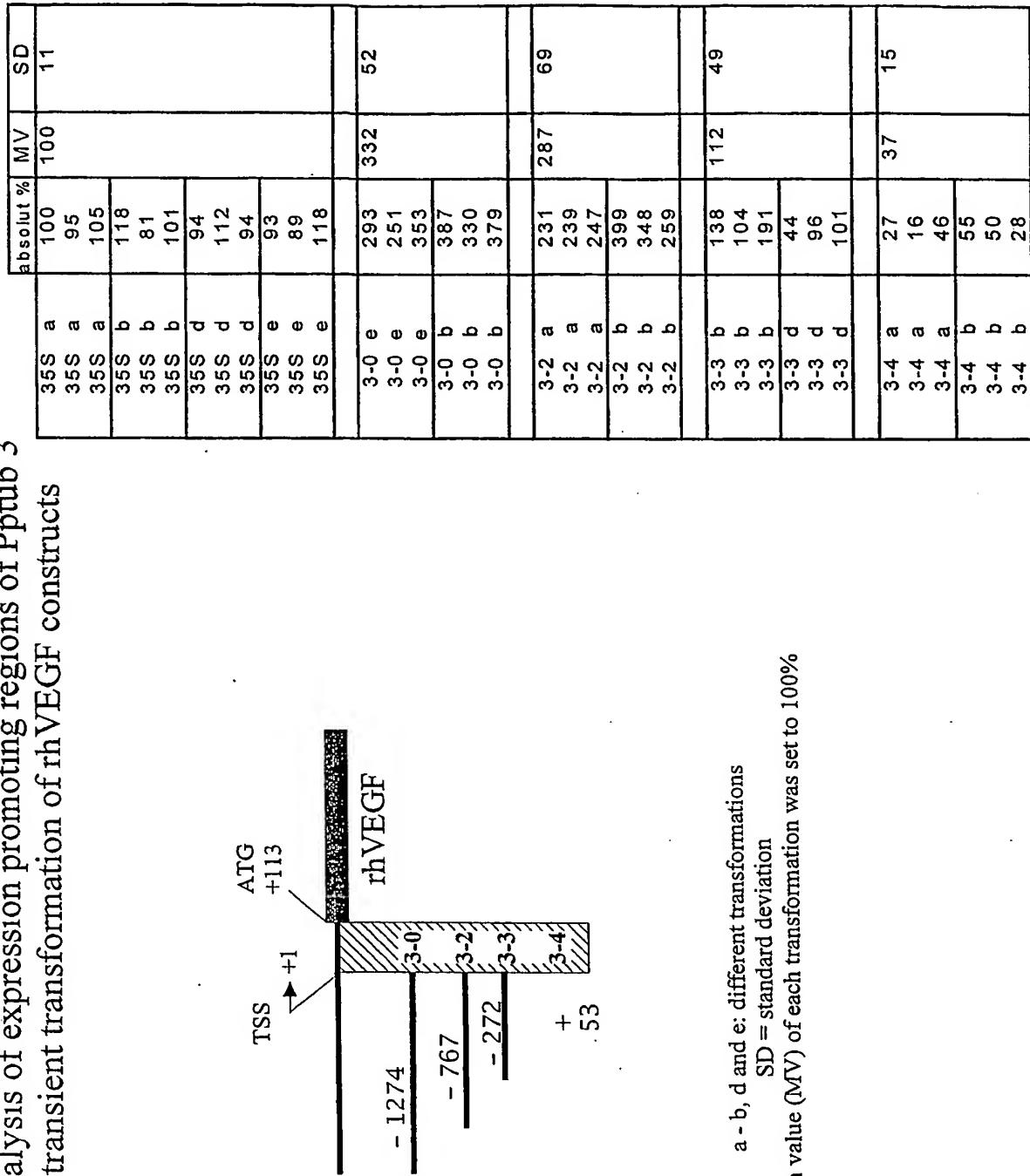
a - b, f and g: different transformations

SD = standard deviation

35S mean value (MV) of each transformation was set to 100%

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Fig. 5: Analysis of expression promoting regions of Pptub 3 by transient transformation of rhVEGF constructs



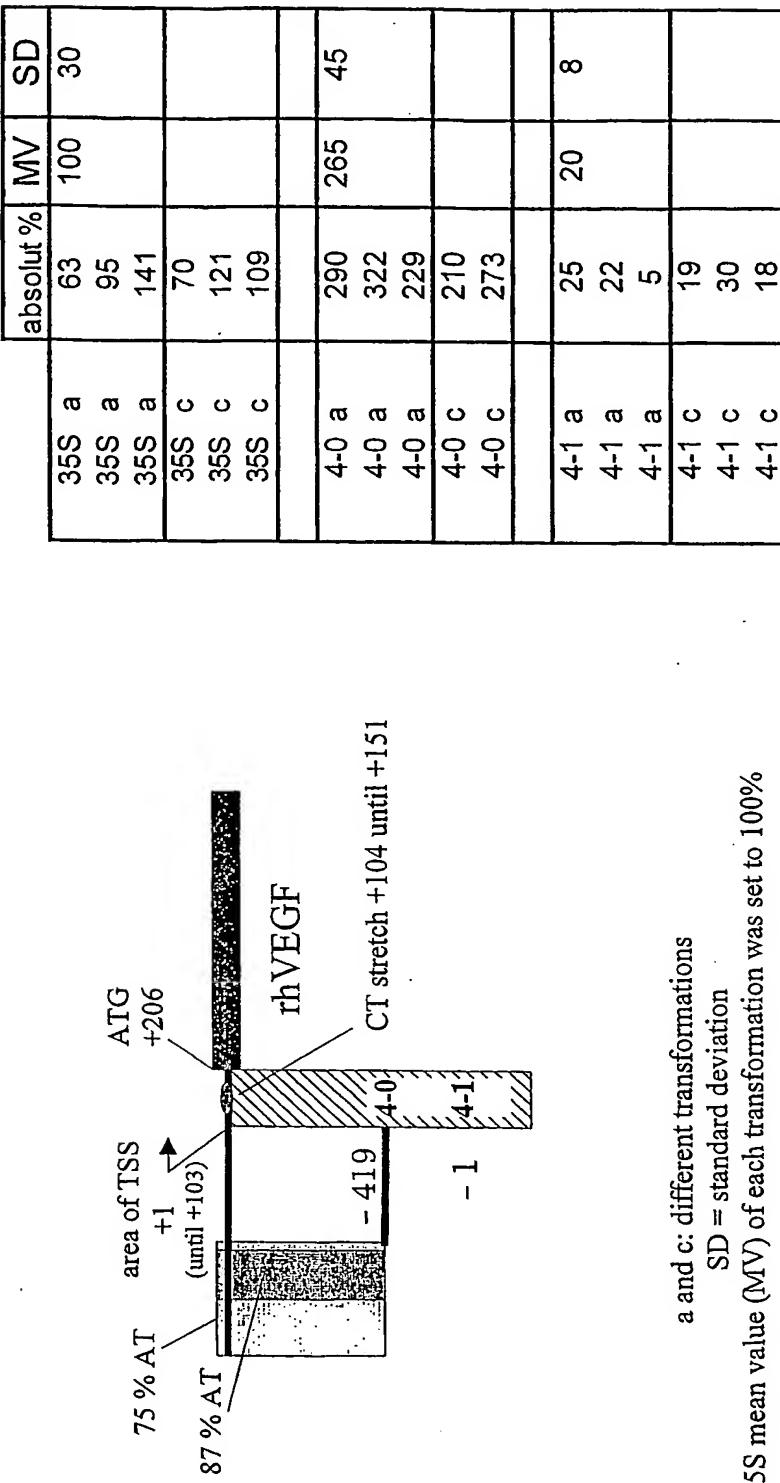
a - b, d and e: different transformations

SD = standard deviation

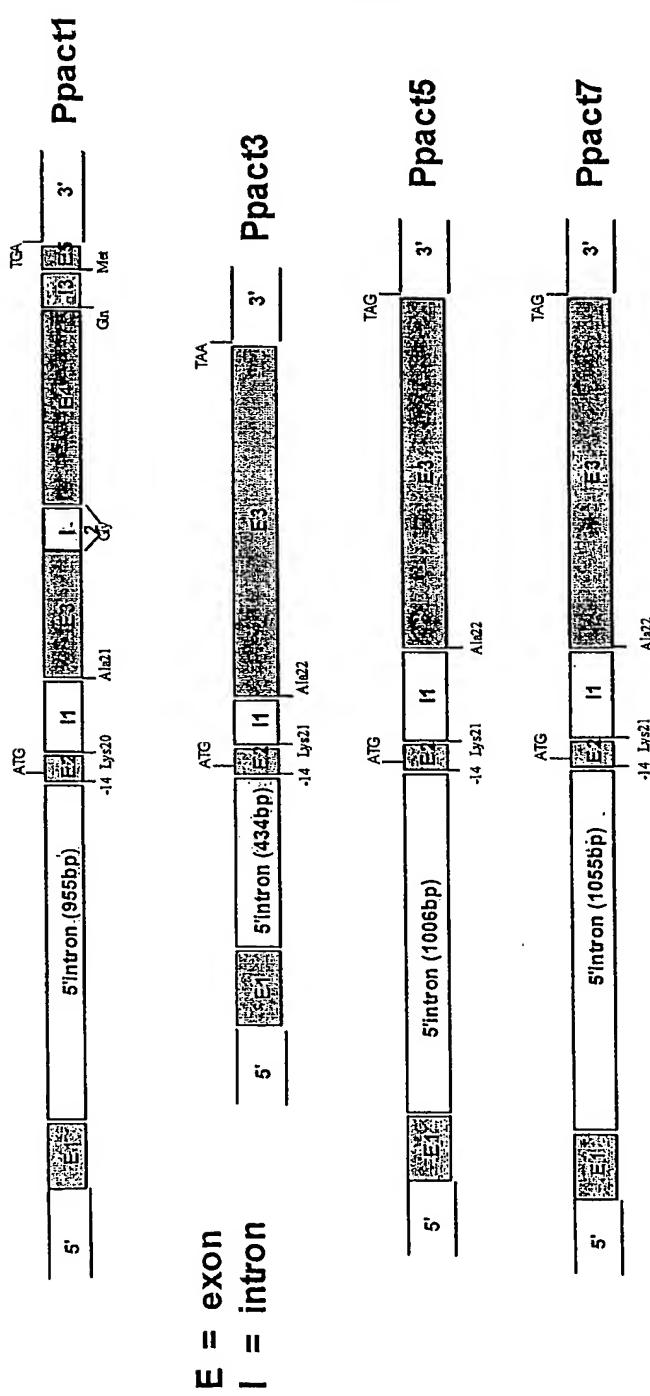
35S mean value (MV) of each transformation was set to 100%

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Fig. 6: Analysis of expression promoting regions of Pptub 4 by transient transformation of rhVEGF constructs



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5' sequences resulting from iPCR:

Ppact1: 2973 bp until ATG: 1824 bp promoter / 955 bp 5' intron

Ppact3: 3091 bp until ATG: 2270 bp promoter / 434 bp 5' intron

Ppact5: 3095 bp until ATG: 1909 bp promoter / 1006 bp 5' intron

Ppact7: 3069 bp until ATG: 1805 bp promoter / 1055 bp 5' intron

Fig. 7: Genomic structure of *Physcomitrella patens* actin genes.

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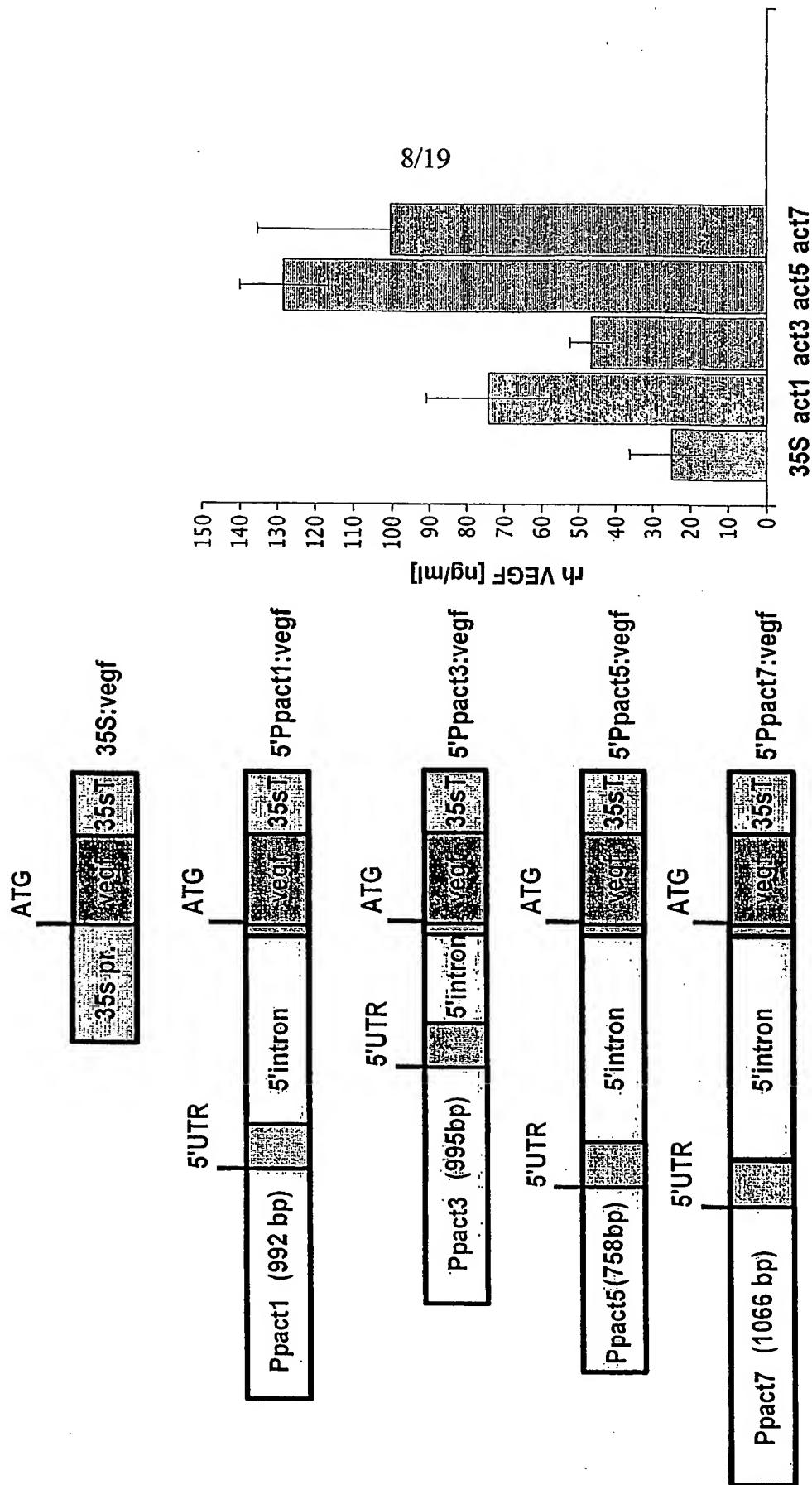


Fig. 8: Comparison of the expression activity of the different 5' actin regions.

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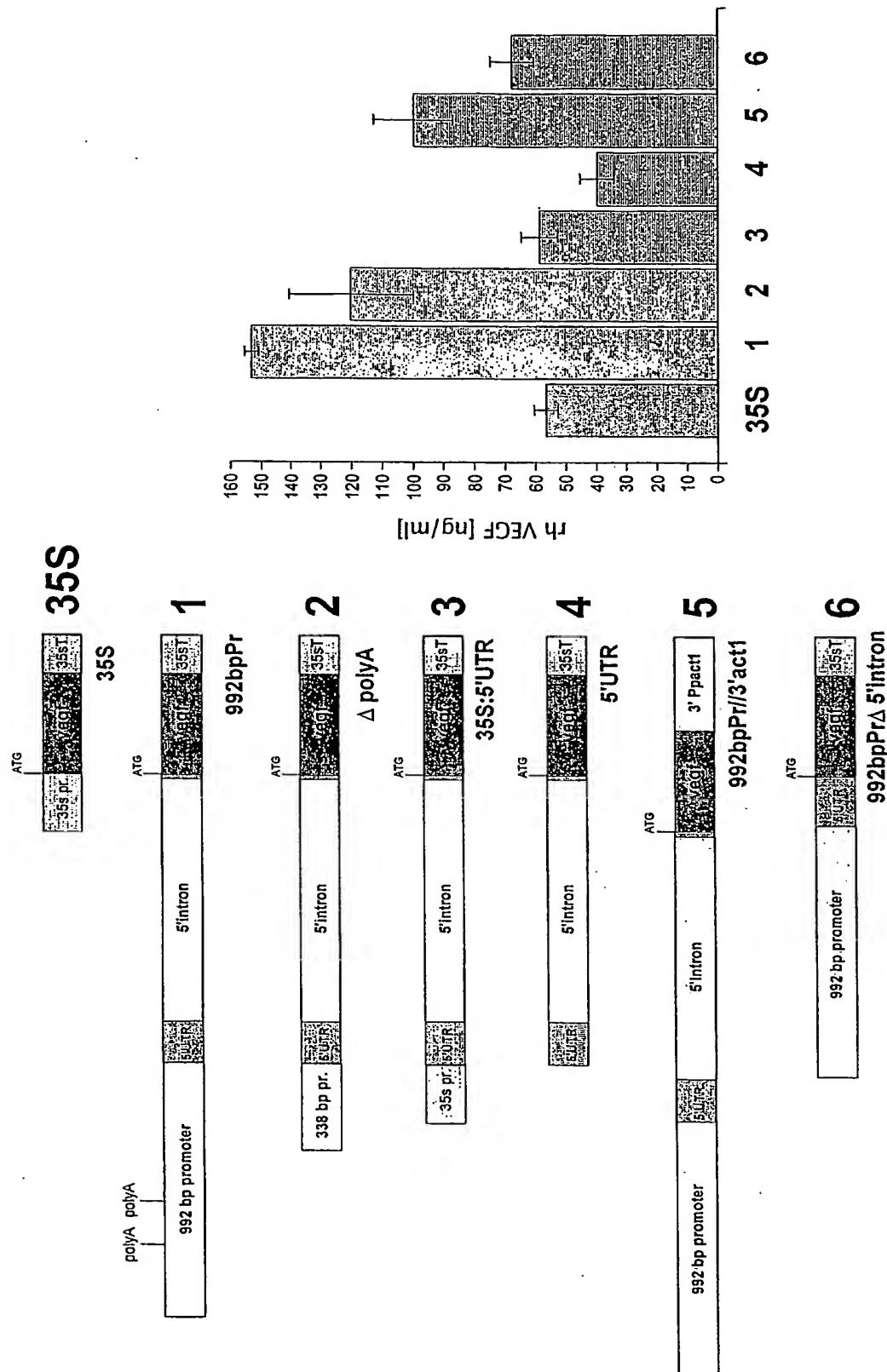


Fig. 9: Ppact1 constructs.

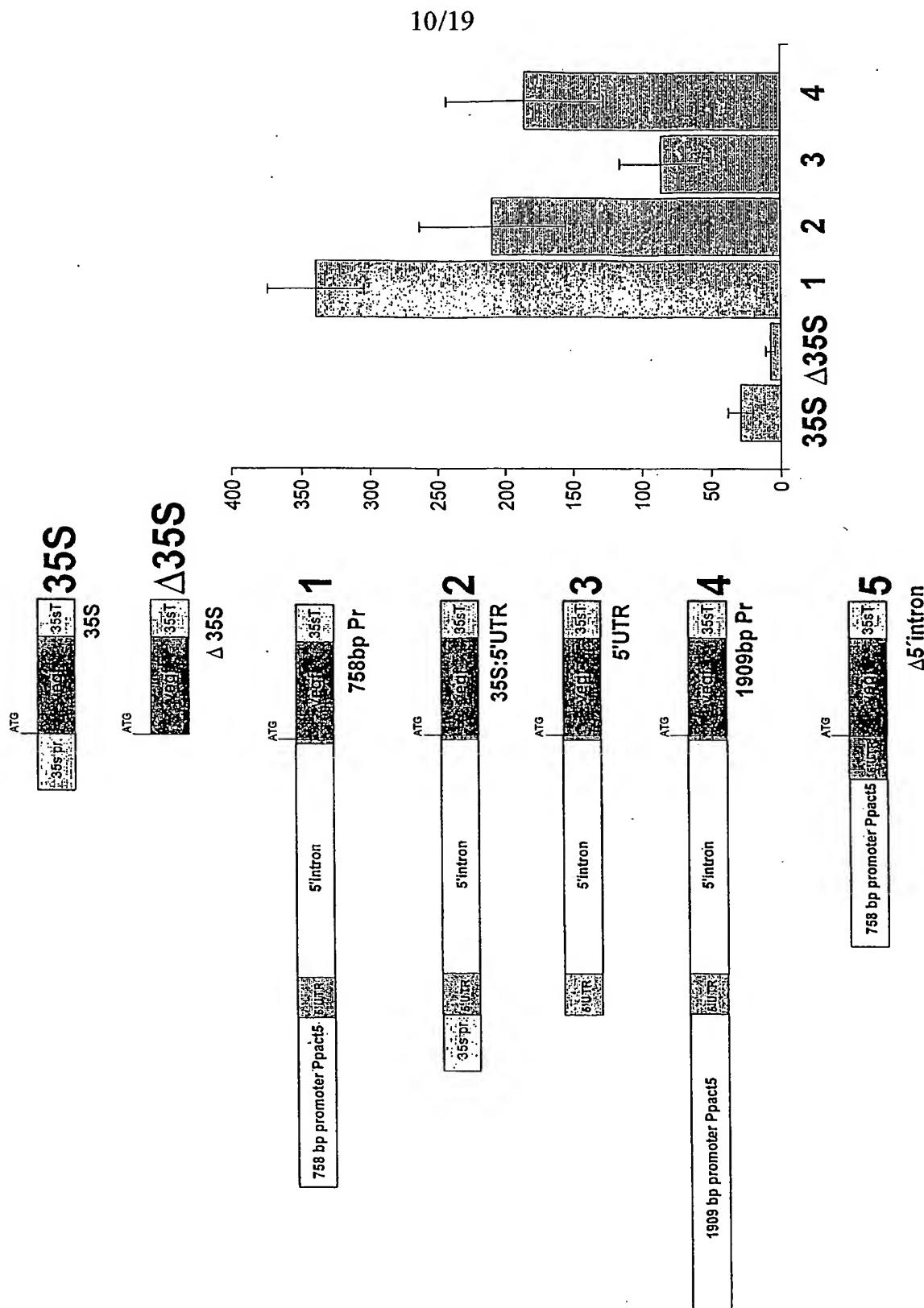
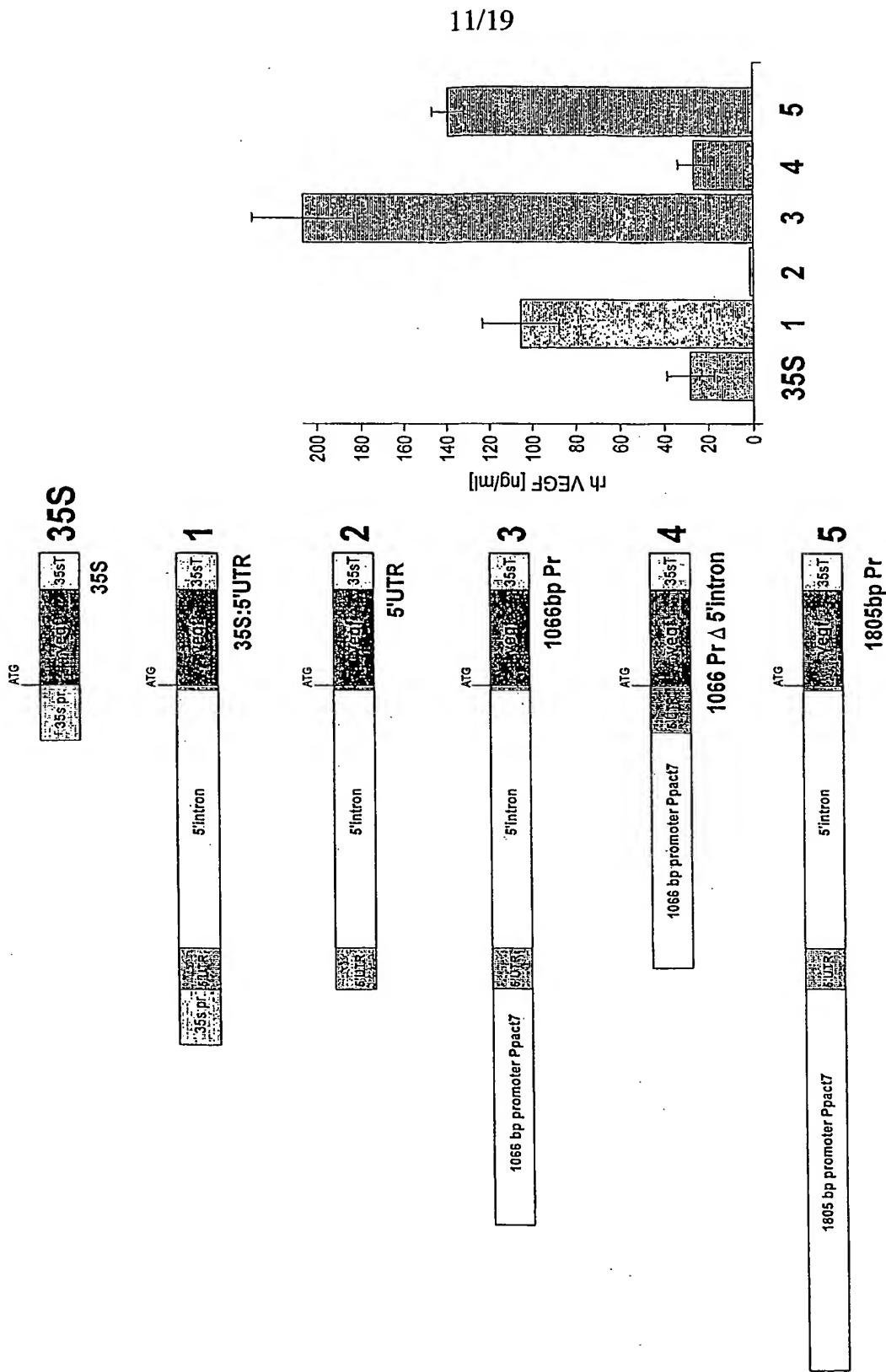


Fig. 10: Ppact 5 constructs.

Δ5'UTR

Fig. 11: P_{pact7} constructs.

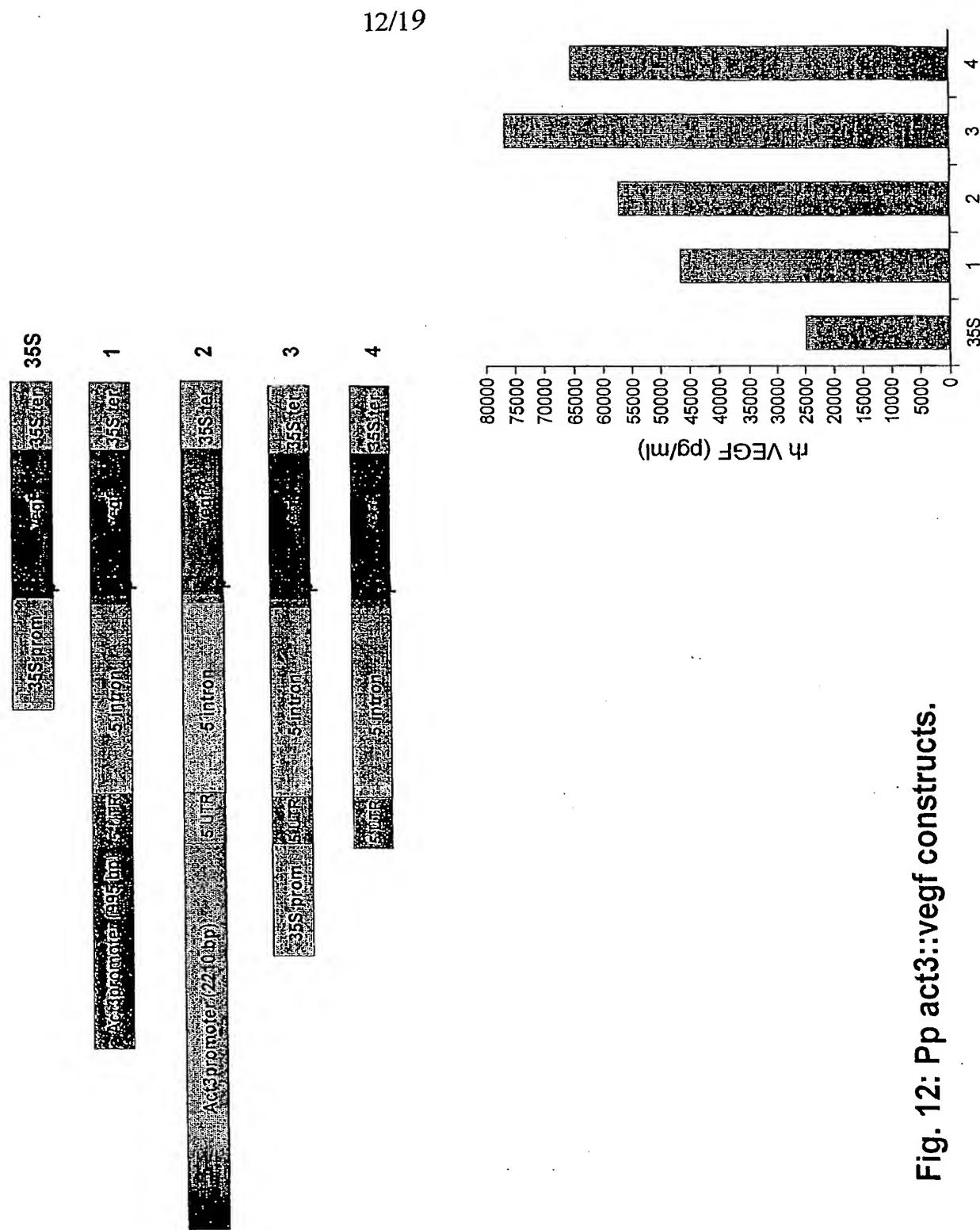


Fig. 12: Pp act3::vegf constructs.

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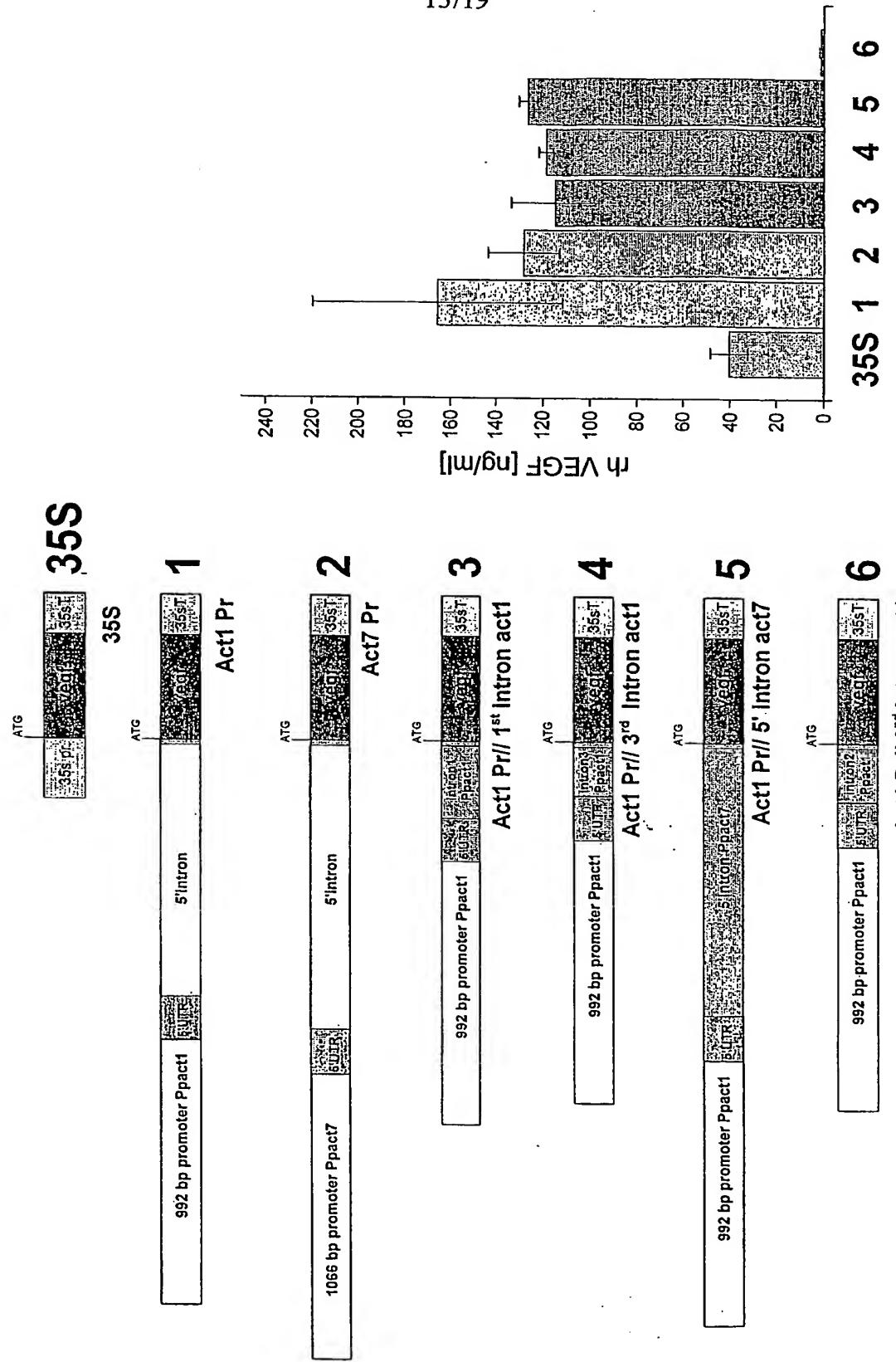
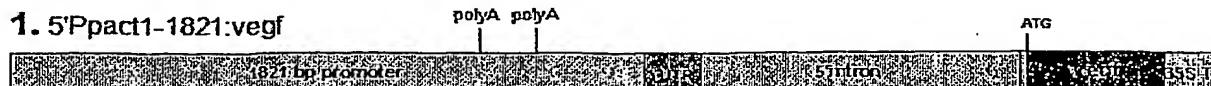
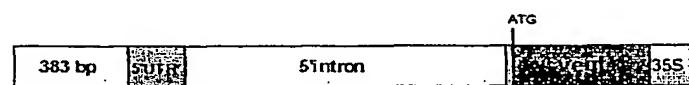
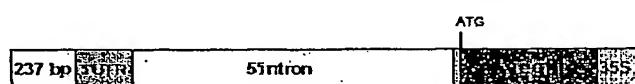
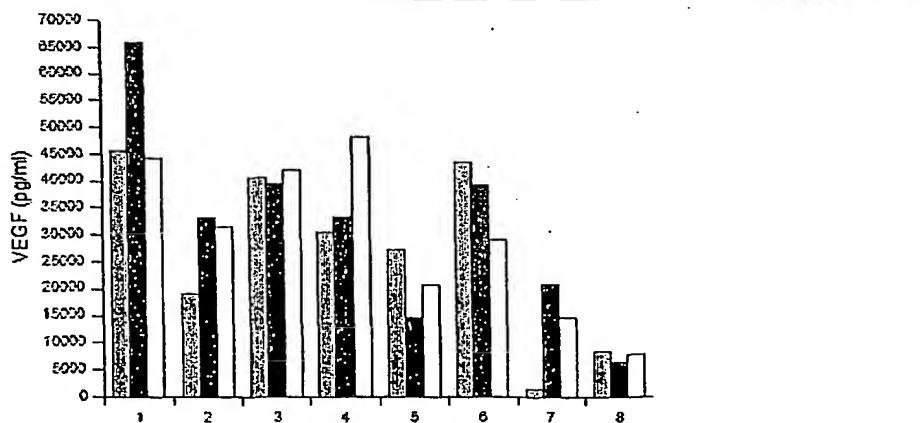
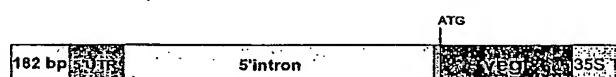
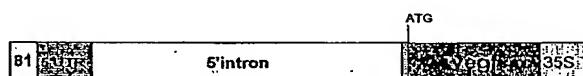
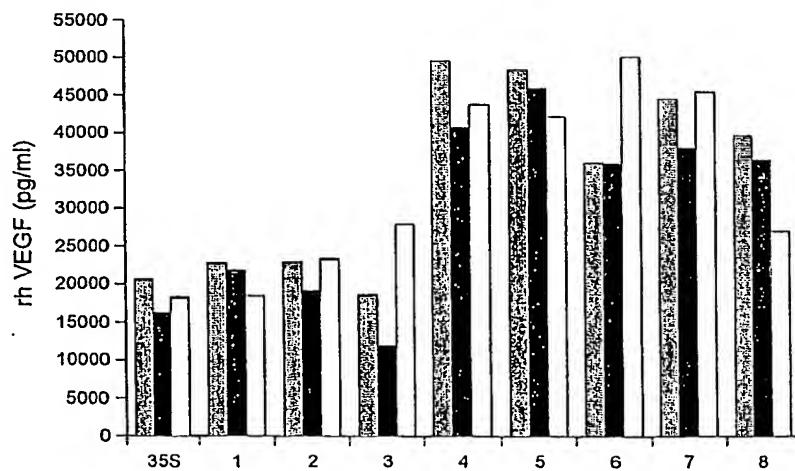
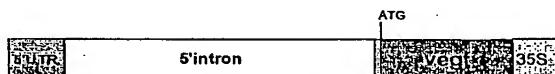


Fig. 13: Ppact1 promoter:5' intron substitutions.

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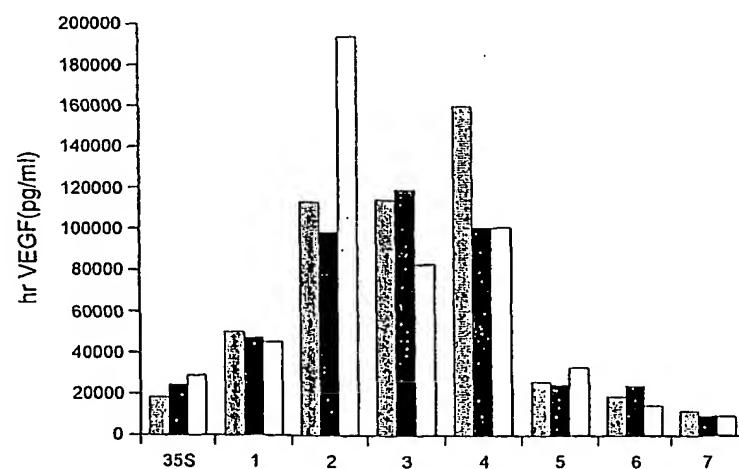
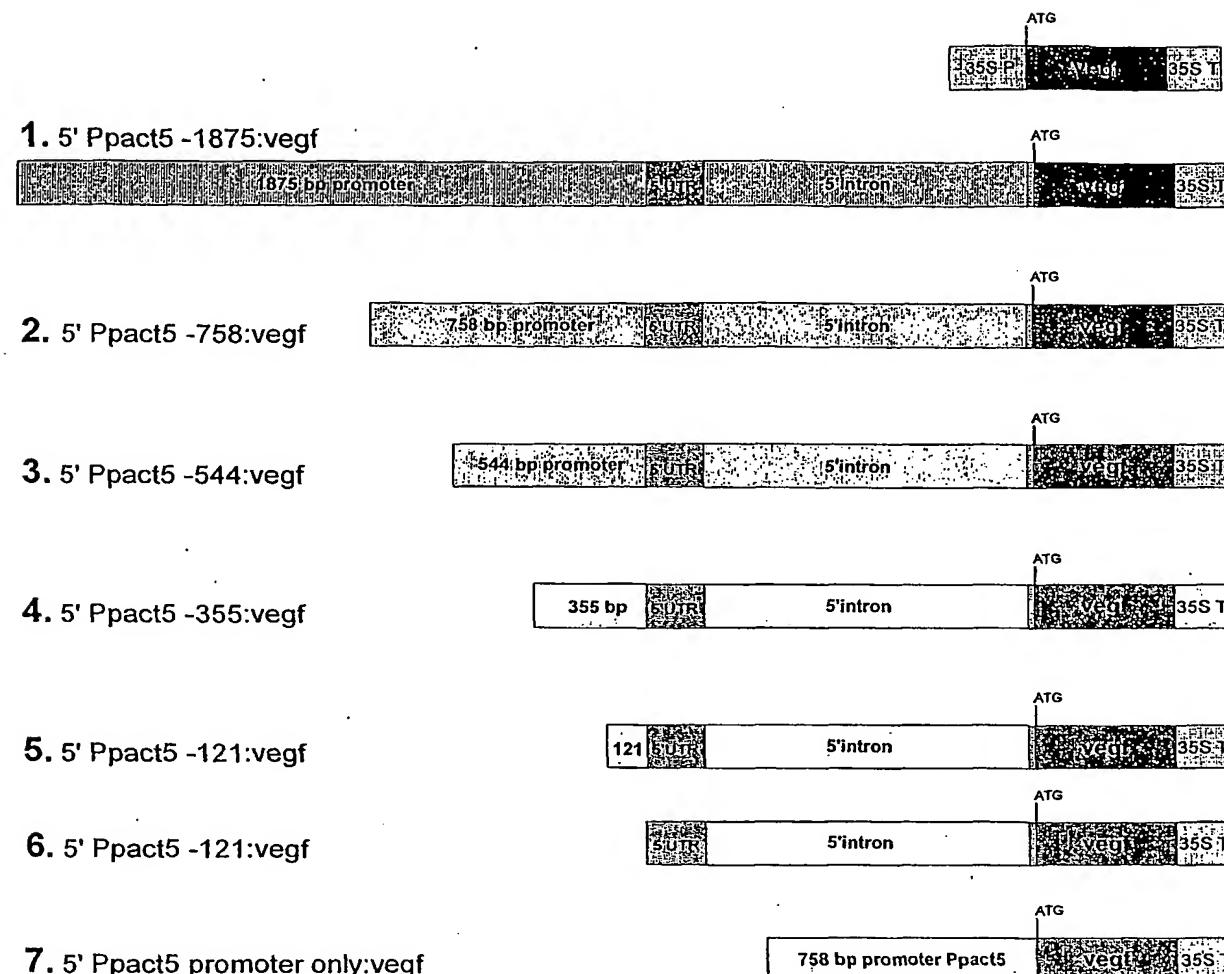
Fig. 14: Ppact1 promoter:vegf deletion constructs.**1. 5'Ppact1-1821:vegf****2. 5'Ppact1-992:vegf****3. 5'Ppact1-790:vegf****4. 5'Ppact1-569:vegf****5. 5'Ppact1-383:vegf****6. 5'Ppact1-237:vegf****7. 5'Ppact1-82:vegf****8. 5'UTR:vegf**

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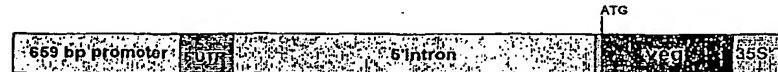
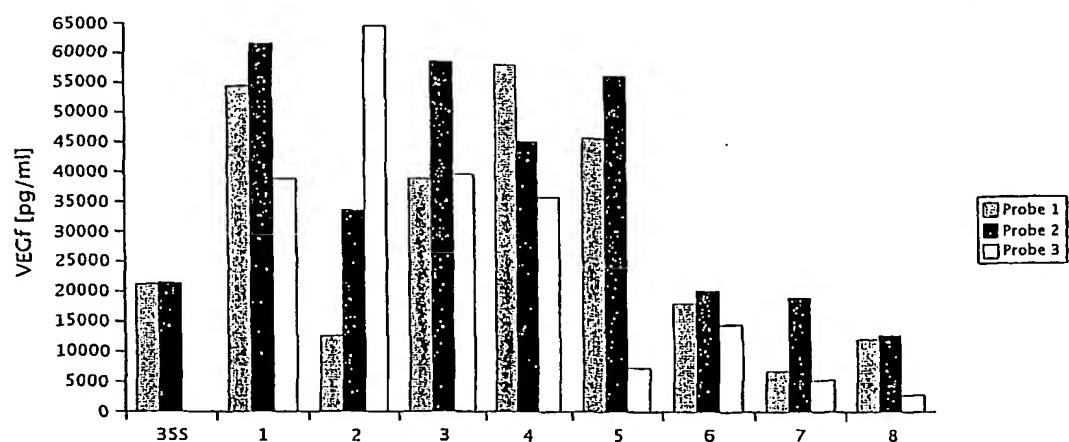
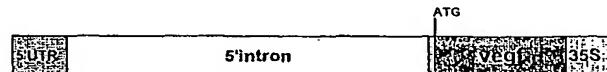
Fig. 15: Ppact3 promoter:vegf deletion constructs.**1. 5'Ppact3-2208:vegf****2. 5'Ppact3-992:vegf****3. 5'Ppact3-821:vegf****4. 5'Ppact3-523:vegf****5. 5'Ppact3-323:vegf****6. 5'Ppact3-182:vegf****7. 5'Ppact3-81:vegf****8. 5'UTR:vegf**

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Fig. 16: Ppact5 promoter:vegf deletion constructs.



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Fig. 17: Ppact7 promoter:vegf deletion constructs.**1. 5' Ppact7 -1790:vegf****2. 5' Ppact7 -1070:vegf****3. 5' Ppact7 -854:vegf****4. 5' Ppact7 -659:vegf****5. 5' Ppact7 -484:vegf****6. 5' Ppact7 -299:vegf****7. 5' Ppact7 -66:vegf****8. 5' UTRact7:vegf**

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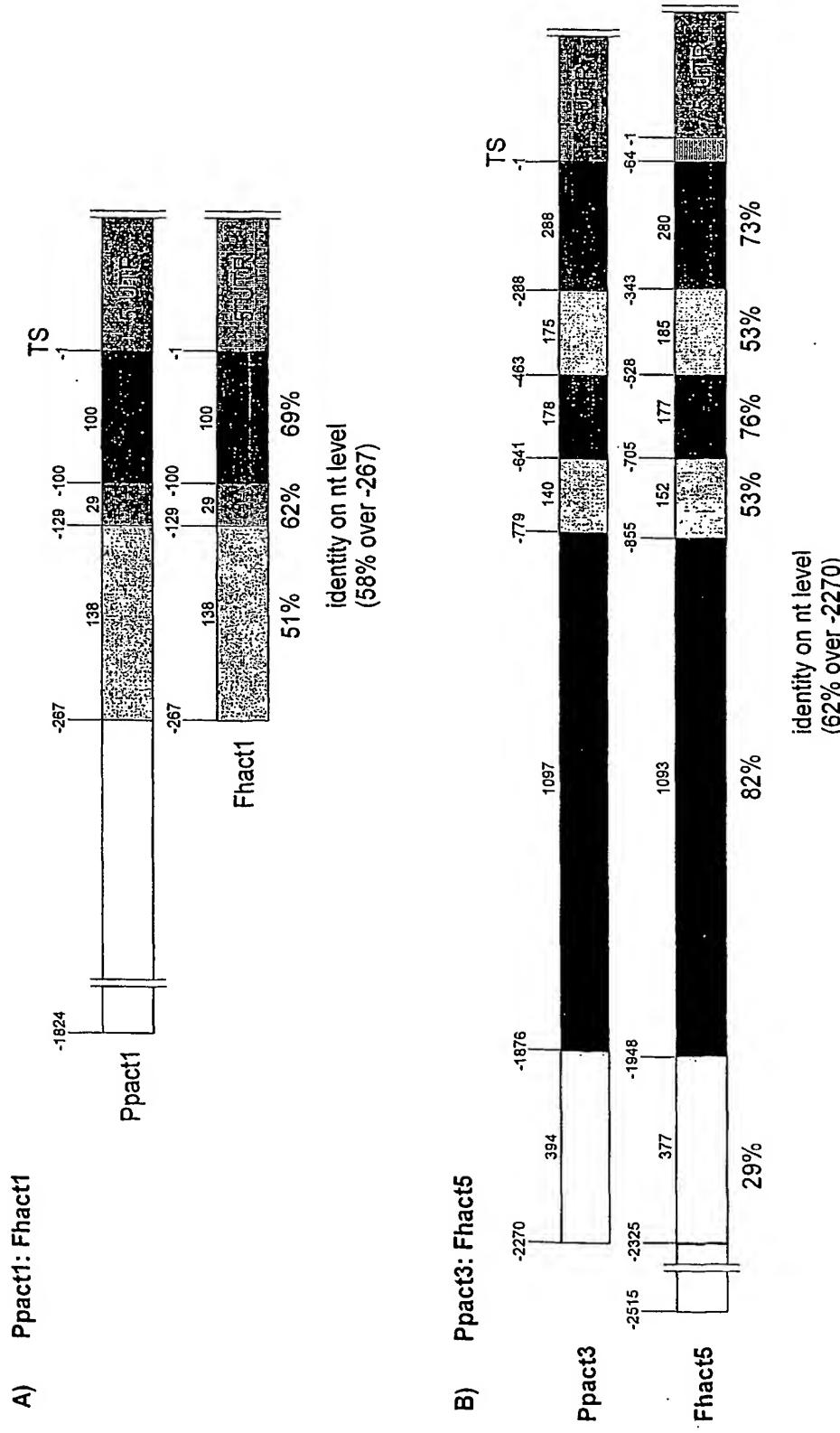


Fig.: 19 Comparison of promoter sequences of homologous actin genes from *Physcomitrella patens* and *Funaria hygrometrica*